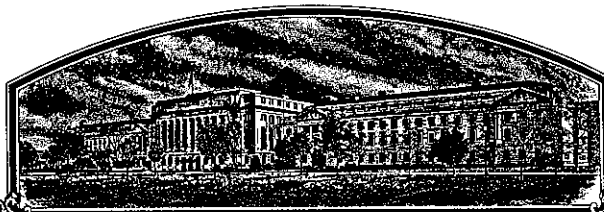


No.

8200149



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Saatzucht Steinach

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (U.S.C. 542, AS AMENDED, 7 U.S.C. 2121 ET SEQ.)

PERENNIAL RYEGRASS

'Lorina'



In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 26th day of October in  
the year of our Lord one thousand nine  
hundred and eighty-four.

Attest

*Kenneth A. ...*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*John R. Block*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0005

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1. NAME OF APPLICANT(S) Saatzucht Steinach		2. TEMPORARY DESIGNATION LPR 103		3. VARIETY NAME Lorina	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) Saatzucht Steinach Dr. M. von Schmieder Nachf. 8441 Steinach/üb. Straubing		5. PHONE (Include area code)		FOR OFFICIAL USE ONLY PVPO NUMBER 8200149	
6. GENUS AND SPECIES NAME Lolium perenne		7. FAMILY NAME (Botanical) Gramineae		FILING DATE 8/9/82 TIME 11:30 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
8. KIND NAME Perennial Ryegrass		9. DATE OF DETERMINATION 1972		FEES RECEIVED AMOUNT FOR FILING \$ 500.00 DATE 8/9/82 AMOUNT FOR CERTIFICATE \$ 250.00 DATE 9/25/84	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation				12. DATE OF INCORPORATION 1920	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION West Germany					
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS O. M. Scott & Sons Company Dr. John Long Marysville, OH 43041					

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

- a. ☒ Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- b. ☒ Exhibit B, Novelty Statement
- c. ☒ Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- d. ☐ Exhibit D, Additional Description of the Variety

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) ☐ Yes (If "Yes," answer items 16 and 17 below) ☒ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ Yes ☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? ☐ Foundation ☐ Registered ☐ Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES?  
Federal Republic of Germany  
October 24, 1977 ☒ Yes (If "Yes," give names of countries and dates) ☐ No

19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES?  
Federal Republic of Germany  
August 10, 1981 ☒ Yes (If "Yes," give names of countries and dates) ☐ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.  
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT Ewald Brander / 64 E. Peter Giffen		DATE 8/5/82
SIGNATURE OF APPLICANT		DATE 1

## INSTRUCTIONS

**General:** Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may **NOT** reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

RECEIVED

AUG 9 1982



## EXHIBIT A

## Origin &amp; Breeding History of Lorina Perennial Ryegrass

## 1. Genealogy

Nine plants with distinctive growth habits were selected in Austria in 1972.

## 2. Subsequent Stages of Selection and Multiplication

Two cycles of selection were made for desirable type starting with more than 200 clones of which 25 clones were kept after thorough testing. Seeds of these 25 clones were composited and used for multiplication.

## 3. Type and Frequency of Variants

Only slight variation has been noted in Lorina. Approximately one percent of the plants are earlier, taller and more upright than the rest of the population. In the third generation this percentage is slightly higher.

## 4. Evidence of Uniformity and Stability

Uniformity was verified by the German Bundessortenamt (BSA) on August 10, 1981.

8200149



*O M Scott & Sons*

*A Subsidiary of ITT*

*Marysville, Ohio 43040*

*(513) 644-0011*

December 9, 1983

Mr. Joseph J. Higgins, Examiner  
Plant Variety Protection Office  
U.S. Department of Agriculture  
Agricultural Marketing Service  
National Agricultural Library Building  
Beltsville, Maryland 20705

Dear Mr. Higgins:

Subject: Perennial Ryegrass Application  
No. 8200149, 'Lorina'

Following are the answers to your questions in your letter of September 28, 1983.

Question on multiplication: The 25 selected clones were allowed to intercross to produce the breeders seed for 'Lorina.'

Question on stability: 'Lorina' is stable and uniform in its characteristics from one sexual generation to another.

Novelty statement: The revised novelty statement is the attached Exhibit B.

If there are additional points that need clarification, please call.

Sincerely,

J. A. Long, Director  
Turf Products Development

JAL:cmt

cc: P. Berner

Novelty Statement for Lorina

Perennial Ryegrass, No. 8200149

Lorina is most similar to Loretta in variety characteristics.

Lorina differs from Loretta in color, mature plant height, lodging and maturity. Lorina is darker green (Tables 1-4), has lower mature plant height (Tables 1 and 5), has less lodging (Table 5) and is later maturing (Table 1 and 5) than Loretta.

## EXHIBIT B

## Novelty Statement for Lorina Perennial Ryegrass

Novelty is based on shorter seed stalks, lower 1000 seed weight, small seed size, narrower leaf width, high turf density and dark green leaf color.

Lorina differs from Loretta by its lower growth habit, later maturity, smaller seed size, darker green color and denser turf.

Lorina differs from Manhattan by its later flowering, lower growth habit, smaller seed size, narrower leaf blades, denser turf and darker green color.

The German BSA has determined Lorina to be different from Sprinter, Springfield, Saione, Capper and Magister because of its darker green leaf color.

Table 1 - German BSA ratings on color, mature plant height and maturity.

	<u>Color<sup>1/</sup></u>	<u>Height<sup>2/</sup></u>	<u>Maturity<sup>3/</sup></u>
Loretta	5	4	68
Lorina	6	2	72

1/ Higher number is darker green.

2/ Higher number is taller.

3/ Days after April 1 to flowering.

Table 2 - Color rating - Marysville, Ohio (higher number is a darker green color)

Test seeded 6/19/80

Reading Date	<u>10/6/82</u>	<u>4/28/81</u>
Loretta	7.00	8.1
Lorina	7.43	8.3
*Test LSD (.05)	.20	.25

Test seeded 9/2/80

Reading Date	<u>6/3/82</u>	<u>8/23/82</u>	<u>9/20/82</u>	<u>5/29/81</u>	<u>6/5/81</u>
Loretta	7.33	7.30	7.28	8.93	8.77
Lorina	7.93	7.63	7.43	9.07	9.33
Test LSD (.05)	.27	.28	.22	.11	.91

Test seeded (5/22/81)

Reading Date	<u>8/23/82</u>	<u>9/21/83</u>
Loretta	7.37	7.00
Lorina	7.70	7.43
*Test LSD (.05)	.26	.19

\*Test LSD is the LSD calculated for the entire test and not just calculated for this single comparison.



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Table 3 - Color rating - Prince Frederick, Maryland (higher number is a darker green color)

Test seeded 4/22/81

Reading Date	<u>6/10/82</u>	<u>10/8/82</u>
Loretta	6.67	6.00
Lorina	8.30	7.37
Test LSD (.05)	1.35	.88

Table 4 - Color rating - Gervais, Oregon (higher number is a darker green color)

Test seeded	<u>7/21/81</u>	<u>9/10/82</u>
Loretta	7.17	7.00
Lorina	7.83	8.33
Test LSD (.05)	.49	.45

Table 5 - Mature plant height (cm) and lodging (0 = upright, 5 = flat) - Gervais, Oregon

Tested seeded 10/12/80

	<u>Height</u>	<u>Lodging</u>	<u>Date of Maturity</u>
Loretta	89.75	2.75	7/29/81
Lorina	59.50	0.00	8/3/81
Level of significance*	.006	.002	

\*.05 or less is generally accepted as being significantly different.

Table 1. Perennial Ryegrass Variety Test\* - Seeded  
5/22/81, Marysville, Ohio

<u>Characteristic</u>	<u>Date</u>	<u>Lorina</u>	<u>Idole</u>	<u>LSD 5%*</u>
Leafspot	5/19/82	4	25	12.8
Density	5/19/82	67	63	4.9
Quality	5/19/82	2.1	1.9	.15
Density	6/3/82	75	69	3.6
Quality	6/3/82	2.13	1.97	.08
Density	6/24/82	75	69	4.3
Color	6/30/82	7.3	7.5	.26
Quality	6/30/82	1.77	1.47	.37
Green	7/23/82	50	28	19.7
Density	9/21/82	73	65	4.9
Color	9/21/82	7.4	7.7	.19
Density	5/17/83	72	66	5.0
Leafspot	6/3/83	3.0	8.3	7.9

#### Rating Scales

Leafspot	Density, Green - %
Quality	1-4, 4 = Best
Color	1-9, 9 = Darkest Green

\* The complete test contained 33 varieties with the LSD 5% calculated using the error variance for the entire test.

Table 2. Perennial Ryegrass Variety Test - Official Government Trials - West Germany

<u>Characteristic</u>	<u>Year</u>	<u>Lorina</u>	<u>Magister</u>	<u>LSD 5%</u>
Plant Length (cm)	1979	24.70	36.85	2.84
	1980	25.47	38.05	3.10
Color 9 = Best	1979	8	5	2
	1980	8	4	2
Seedling Color 9 = Best	1979	8	5	2
	1980	8	4	2
Flag Leaf Length (mm)	1979	121.21	152.39	14.84
	1980	95.33	114.82	13.17
First Flower Appearance (days after April 1)	1979	72.29	70.29	1.85
	1980	76.93	72.15	1.48

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
GRAIN DIVISION  
HYATTSVILLE, MARYLAND 20782  
**OBJECTIVE DESCRIPTION OF CULTIVARS**  
**RYEGRASS**  
(*Lolium* spp.)

NAME OF APPLICANT(S) Saatzucht STEINACH	VARIETY NAME OR TEMPORARY DESIGNATION LORINA
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) Saatzucht STEINACH Dr. M. von Schmieder Nachf., 8441 Steinach/üb. Straubing	FOR OFFICIAL USE ONLY PVPO NUMBER 8200149

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. 0 8 9 or 0 9 ) when number is either 99 or less or 9 or less. Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data.

## 1. SPECIES:

2 1 = L. MULTIFLORUM (annual or Italian; includes Westerwoldicum) 2 = L. PERENNE (perennial) 3 = L. RIGIDUM (includes Wimmera)  
4 = HYBRID (of species) 5 = OTHER (Specify)

## 2. PLOIDY:

1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Specify)

## 3. DURATION:

3 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years) 3 = PERENNIAL (more than 4 years)

1 = GULF  
5 = NORLEA

2 = WIMMERA 62  
6 = ABERYSTWYTH S-23

## STANDARD CULTIVARS

3 = LINN 4 = PELO  
7 = MANHATTAN 8 = PENNFINE

## 4. MATURITY (50% HEADED) Use standards from above for comparison:

8 1 = VERY EARLY 3 = EARLY 6 DAYS EARLIER THAN STANDARD CULTIVAR  
5 = MEDIUM 7 = LATE 6 DAYS LATER THAN STANDARD CULTIVAR  
9 = VERY LATE

## 5. MATURE PLANT HEIGHT (Use standard cultivars from above):

4 2 CM. HIGH 2 6 CM. SHORTER THAN STANDARD CULTIVAR  
CM. TALLER THAN STANDARD CULTIVAR

## 6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use standard cultivars from above for comparison:

0 PERCENT DAMAGE OF APPLICATION CULTIVAR  
2 0 PERCENT DAMAGE OF STANDARD CULTIVAR

## 7. TURF DENSITY Use standard cultivars from above:

TILLERS PER 100 SQ. CM.  
LESS TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVAR  
MORE TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVAR

## 8. FLAG LEAF (at full growth) Use standard cultivars from above:

1 1 CM. LENGTH (from ligule to tip) 5 MM. WIDTH (at widest point)  
3 CM. SHORTER THAN STANDARD CULTIVAR 4 FLAG LEAF AT BOOT STAGE: 1 = DEFLEXED  
CM. LONGER THAN STANDARD CULTIVAR 5 = RECURVED  
0 5 MM. NARROWER THAN STANDARD CULTIVAR 7 = HORIZONTAL  
MM. WIDER THAN STANDARD CULTIVAR 9 = ERECT

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## STANDARD CULTIVARS

1 = GULF  
5 = NORLEA2 = WIMMERA 62  
6 = ABERYSTWYTH S-233 = LINNAPOLAR  
7 = MANHATTAN4 = PELO  
8 = PENNFINE

## 9. LEAVES:

1 = LEAVES ROLLED IN YOUNG SHOOTS

3

2 = LEAVES SEMI-ROLLED (folded with rolled edges)

3 = LEAVES FOLDED IN YOUNG SHOOTS

100

% PLANTS WITH ANTHOCYANIN IN LOWER LEAF SHEATH

3

FOLIAGE COLOR:

1 = YELLOW GREEN  
2 = MEDIUM GREEN  
3 = BLUE GREEN

## 10. SPIKE:

133

MM. SPIKE LENGTH (tip to internode below lowest floret)

59

MM. SHORTER THAN

7

USE STANDARD CULTIVARS FROM ABOVE

MM. LONGER THAN

MM. PER TEN SPIKES (trimmed to internode below lowest floret)

MG. PER TEN SPIKES (trimmed to internode below lowest floret)

MG. LIGHTER PER TEN SPIKES THAN

MG. HEAVIER PER TEN SPIKES THAN

USE STANDARD CULTIVARS FROM ABOVE

FLORETS PER SPIKELET

## PERCENTAGE OF PLANTS WITH:

RACHIS:

0

% SMOOTH

% ROUGH

SPIKE COLOR:

0

% GREEN

0

% PURPLE

LEMMAS:

0

% AWNED

0

MM. AWN LENGTH

MM. GLUME LENGTH

1 = SPIKELET LENGTH NEARLY EQUAL TO OUTER GLUMES  
2 = SPIKELET LENGTH MUCH LONGER THAN OUTER GLUMES

## 11. COLEOPTILE:

100

% PLANTS WITH ANTHOCYANIN IN COLEOPTILE

## 12. ANTHOR COLOR:

100

% PLANTS WITH WHITE ANTHORS

0

% PLANTS WITH YELLOW ANTHORS

0

% PLANTS WITH PURPLE ANTHORS

## 13. ROOT AND PLANT CHARACTERS:

100

% PLANTS WITH PROSTRATE GROWTH HABIT

0

% PLANTS WITH FLUORESCENT ROOTS

0

% PLANTS WITH UPRIGHT GROWTH HABIT

## 14. SEED:

115

PER 1,000 SEED

45

MM. TOTAL LENGTH OF 10 SEEDS

11

MM. TOTAL WIDTH OF TEN SEEDS

## 15. DISEASE (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

<input checked="" type="checkbox"/> 8 CROWN RUST ( <i>Puccinia coronata</i> )	<input checked="" type="checkbox"/> 0 DOLLAR SPOT ( <i>Sclerotinia</i> )	<input checked="" type="checkbox"/> 0 BROWN PATCH ( <i>Rhizoctonia</i> )
<input checked="" type="checkbox"/> 6 LEAF SPOT ( <i>Helminthosporium</i> )	<input checked="" type="checkbox"/> 0 MILDEW	<input checked="" type="checkbox"/> 0 OTHER ( <i>Specify</i> )
<input checked="" type="checkbox"/> 0 SNOW MOLD ( <i>Typhula</i> )	<input checked="" type="checkbox"/> 6 RED THREAD ( <i>Corticium</i> )	

## 16. INSECT (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

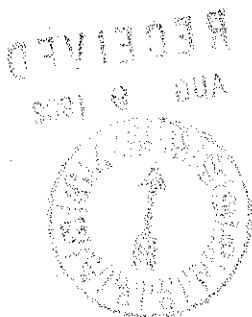
☒ 0 (*Specify*) \_\_\_\_\_

## 17. GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY CODE NUMBER IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE (1 = LESS THAN, 2 = SAME AS, 3 = MORE ERECT, MORE RESISTANT, DENSER, MORE PERSISTENT, DARKER OR GREATER HEIGHT.):

RESEMBLANCE	CHARACTER	SIMILAR VARIETY
<input checked="" type="checkbox"/> 1	PLANT HABIT (erectness)	<input checked="" type="checkbox"/> 7 1 = GULF
<input checked="" type="checkbox"/> 2	TILLERING	<input checked="" type="checkbox"/> 7 2 = WIMMERA 62
<input checked="" type="checkbox"/> 3	WINTER HARDINESS	<input checked="" type="checkbox"/> 7 3 = LINN
<input checked="" type="checkbox"/> 2	HIGH TEMP. STRESS RESISTANCE	<input checked="" type="checkbox"/> 7 4 = PELO
<input checked="" type="checkbox"/> 3	TURF PERSISTENCE	<input checked="" type="checkbox"/> 7 5 = NORLEA
<input checked="" type="checkbox"/> 3	PLANT COLOR	<input checked="" type="checkbox"/> 7 6 = ABERYSTWYTH S-23
<input checked="" type="checkbox"/> 1	VERTICAL SEEDLING GROWTH RATE	<input checked="" type="checkbox"/> 7 7 = MANHATTAN
<input checked="" type="checkbox"/> 3	CROWN DENSITY	<input checked="" type="checkbox"/> 7 8 = PENNFINE
<input checked="" type="checkbox"/> 3	MOWER SHREDDING RESISTANCE	<input checked="" type="checkbox"/> 7

18. GIVE AREA OF ADAPTATION AND INTENDED USE: Turf - Grass19. GIVE AREA TEST RESULTS PRESENTED FROM: West Germany (Steinach, Scharnhorst)

COMMENTS:



8441 Steinach, den 22. Juli 1982

**Saatzucht Steinach**

Dr. M. von Schmieder Nachf.

8441 Steinach/ab. Straubing

ppa.

Ewald Grundler

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